

What us claimed is:

1. A radio operated data card including, on said card,
an antenna,
a data memory,
a transceiver for transferring data between said memory and a remote host system via said antenna,
a user-activated electrical switching circuit for generating a plurality of control signals in response to the selective manipulation of said card by a human cardholder, and
means for controlling the transfer of data via said transceiver in response to said control signals.
2. A radio operated data card as set forth in claim 1 wherein said control signals indicate the timing of the selective manipulation of said card.
3. A radio operated data card as set forth in claim 1 wherein said control signals indicate the position on said card at which said selective manipulation occurs.
4. A radio operated data card as set forth in claim 3 wherein said control signals indicate the location at which said human cardholder touches said card.
5. A radio operated data card as set forth in claim 4 wherein said control signals further indicate the timing when said human cardholder touches said card.
6. A radio operated data card as set forth in claim 1 wherein said electrical switching circuit comprises a plurality of switching elements positioned at different locations on said card and wherein said control signals indicate which of said switching elements is activated by said selective manipulation by said human cardholder.

7. A radio operated data card as set forth in claim 6 wherein said control signals further indicate the timing when said switching elements are activated.

8. A radio operated data card as set forth in claim 1 wherein said means for controlling the transfer of data comprises means for enabling said transceiver only when said plurality of control signals satisfies one or more predetermined conditions.

9. An RFID card adapted to be carried by and activated by a human cardholder comprising, in combination,
a transceiver on said card for exchanging data between said RFID card and a remotely located card reader electromagnetically coupled to said card,
at least one sensor on said card operable by said cardholder to generate a plurality of control signals indicating a corresponding sequence of touch events when said card is being manipulated by said cardholder, and
means responsive to said control signals for controlling the data exchanged between said RFID card and said card reader.

10. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 9 wherein said control signals indicate the timing of said touch events.

11. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 9 wherein said control signals indicate the location on said card where said touch events occur.

12. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 11 wherein said sensor comprises a plurality of switching elements located at different positions on the surface of said card.

13. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 12 wherein said transceiver is electromagnetically coupled to said card reader by an

antenna and wherein each of said plurality of switching elements are connected to said antenna to vary the gain or resonant frequency of said antenna.

14. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 12 wherein said switching elements are activated at different times by said cardholder to generate said plurality of control signals.

15. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 11 wherein said switching elements are activated by the selective positioning of the cardholder's hand with respect to said card.

16. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 9 wherein said transceiver is enabled only when said plurality of control signals satisfies a predetermined criteria.

17. A data card carried by a cardholder including a plurality of sensors positioned on the surface of said card forming a data entry keypad operable by said cardholder.

18. A data card carried by a cardholder as set forth in claim 17 wherein said sensors are connected to an integrated circuit on said card to control the operation of said integrated circuit.

19. A data card carried by a cardholder as set forth in claim 18 wherein said data card further includes an antenna for electromagnetically communicating data between said card and a remote reader.

20. A data card carried by a cardholder as set forth in claim 18 wherein said data card further includes a communications circuit for exchanging information between said data card and a remote reader, and wherein said at least some of said information is entered by said cardholder using said data entry keypad.

21. An RFID card adapted to be carried by and activated by a human cardholder comprising
an on-card antenna having a preferential response to the presence of a conductive object positioned proximate to a predetermined region of said card and
sensing means coupled to said antenna for detecting the presence of said object.

22 An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 21 wherein said sensing means detects a change in the Q of said antenna in the presence of said object.

23. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 21 wherein said sensing means detects a change in the amplitude gain of said antenna in the presence of said object.

24. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 21 wherein said conductive object is a human hand.

25. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 21 wherein said conductive object is a conductive member mounted on said card for movement with respect to said on-card antenna to alter the characteristics of said antenna.

26. An RFID card adapted to be carried by and activated by a human cardholder comprising
one or more antenna segments on said card and
a sensor coupled to said two or more antenna segments for detecting the position of a conductive object relative to the position of said one or more antenna segments.

27 .An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 26 wherein said sensor detects a change in the Q of said antenna in the presence of said object.

28. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 26 wherein said sensor detects a change in the standing wave ratio exhibited by said two or more antenna segments in the presence of said object.

29. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 26 wherein said sensor detects a change in the amplitude gain of said one or more antenna segments in the presence of said object.

30. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 26 wherein said sensor detects a change in the resonant frequency of said one or more antenna segments in the presence of said object.

31. An RFID card adapted to be carried by and activated by a human cardholder as set forth in claim 26 wherein said conductive object is a conductive member mounted on said card for movement with respect to said one or more antenna segments to alter the characteristics of one or more of said antenna segments.